

## Message Text

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WE.O. 11652: N/A

TAGS: TSPA UR

SUBJECT: US-USSR JOINT SYMPOSIUM IN Leningrad

REF:: Leningrad 410

DEPARTMENT PASS NASA HQ FOR "I," ANDERSON FROM THIBEDAU  
MOSCOW FOR P AND C AND RELEASE TO WESTERN PRESS

1. US AND USSR BERING SEA EXPERIMENT SCIENTISTS AND THEIR  
EXPERT ADVISERS MET IN Leningrad THIS WEEK TO PRESENT  
THE RESULTS OF THE FINAL ANALYSIS OF THE DATA OBTAINED  
DURING THE JOINT BERING SEA EXPERIMENT. THIS EXPERIMENT  
WAS CONDUCTED IN FEBRUARY-MARCH 1973 AND UTILIZED THE NASA  
CONVAIR-990 AND SOVIET ILYUSHIN-QI FLYING LABORATORIES AS  
WESS AS A US ICE BREAKER AND A SOVIET OCEANOGRAPHIC RESEARCH  
SHIP TO STUDY ICE COVER, SEA STATE AND ZONES OF PRECIPITATION  
BY MEANS OF AIRBORNE MICROWAVE RADIOMETERS;

2. THE EXPERIMENT WAS CONDUCTED IN ACCORDANCE WITH THE  
AUGUST 1971 RECOMMENDATIONS OF THE JOINT US/USSR WORKING  
GROUP ON SATELLITE METEOROLOGY WHICH WAS ESTABLISHED BY THE  
NASA/SOVIET ACADEMY AGREEMENT OF JANUARY 21, 1971 FOR CO-  
OPERATION IN SPACE SCIENCES AND APPLICATIONS. THIS AGREE-  
MENT WAS SUBSEQUENTLY CONFIRMED AT THE GOVERNMENTAL LEVEL  
ON MAY 24, 1972 BY THE AGREEMENT BETWEEN THE UNITED STATES  
OF AMERICA AND THE UNION OF SOVIET SOCIALIST REPUBLICS  
CONCERNING COOPERATION IN THE EXPLORATION AND USE OF OUTER  
SPACE FOR PEACEFUL PURPOSES.

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3. FOR THE FIRST TIME, TWO INDEPENDENT RESEARCH GROUPS HAVE MADE MICROWAVE RADIOMETRY MEASUREMENTS OF SEA ICE AND THE OCEAN SURFACE UNDER THE SAME CONDITIONS OF VARYING SURFACE ROUGHNESS AND INTERVENING ATMOSPHERIC CONDITIONS, ACCOMPANIED BY SUPPORTING IN SITU MEASUREMENTS MADE FROM TWO RESEARCH SHIPS. THE RESULTS OBTAINED BY BOTH GROUPS WERE GENERALLY THE SAME, PERMITTING A HIGH CONFIDENCE FACTOR TO BE PLACED ON THE DATA AND THEIR INTERPRETATION. IN THE CASE OF SEA ICE, IT WAS FOUND THAT MICROWAVE RADIOMETRY FROM SATELLITES MAY BE USED TO ASSESS SEA ICE DISTRIBUTION, MOTION, AND STRESS. IT WAS ALSO FOUND THAT ATMOSPHERIC WATER VAPOR AND LIQUID WATER CONTENT MAY BE DETERMINED BY MULTISPECTRAL MICROWAVE RADIO-METRY OVER VARIOUS CONDITIONS OF THE SEA SURFACE. FIINALLY, IT WAS DEMONSTRATED THAT THE SAME TECHNIQUE MAY BE USED TO DETERMINE OCEAN SURFACE WIND SPEEDS.

4. THE EXPERIMENT SCIENTISTS ARE DR. WILLIAM NRODBERG (REPRESENTED AT THE LENINGRAD MEETING BY DR. PER GLOERSEN), U. S. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AND PROFESSOR KIRIL KONDRATYEV, LENINGRAD STATE UNIVERSITY. THE FINAL REPORT OF THIS MEETING WILL BE MADE PUBLIC AFTER IT HAS BEEN REVIEWED BY NASA MANAGEMENT.  
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